

INTERNATIONAL SEARCH REPORT

International Application No
PCT/EP 03/03651

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 F16B19/10 B21K1/60		
According to International Patent Classification (IPC) or to both national classification and IPC		
B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) IPC 7 F16B B21K		
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched		
Electronic data base consulted during the international search (name of data base and, where practical, search terms used) EPO-Internal		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	EP 0 677 666 A (AVDEL SYSTEMS LTD) 18 October 1995 (1995-10-18) figure 1	6
Y	GB 2 332 722 A (EMHART INC) 30 June 1999 (1999-06-30) cited in the application claims 1,5,6; figures 1,2	1-10
Y	US 5 183 357 A (PALM ERICH) 2 February 1993 (1993-02-02) abstract; figures 1,2,8,9,12-15	1-10
A	GB 876 255 A (OLYMPIC SCREW & RIVET CORP) 30 August 1961 (1961-08-30) figures 3,6-8	1-8
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<input checked="" type="checkbox"/> Further documents are listed in the continuation of box C. <input checked="" type="checkbox"/> Patent family members are listed in annex.		
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Date of the actual completion of the international search 24 July 2003		Date of mailing of the international search report 01/08/2003
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax (+31-70) 340-3016		Authorized officer Bousquet, K

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PCT/EP 03/03651

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	WO 99 64751 A (TEXTRON FASTENING SYSTEMS LTD) 16 December 1999 (1999-12-16)	11-20
A	page 1, line 12 - line 23 page 6, line 8 - line 14; figures 2,3	1,2
Y	DE 41 22 158 A (HILGELAND GMBH & CO GEB) 7 January 1993 (1993-01-07) column 2, line 1 - line 57; figure 1	11-20

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP 03/03651

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
EP 0677666	A	18-10-1995	GB 2288649 A	25-10-1995
			AT 163739 T	15-03-1998
			AU 685910 B2	29-01-1998
			AU 1644795 A	26-10-1995
			BR 9501575 A	14-11-1995
			CA 2146950 A1	15-10-1995
			DE 69501672 D1	09-04-1998
			DE 69501672 T2	06-08-1998
			EP 0677666 A1	18-10-1995
			ES 2114273 T3	16-05-1998
			JP 7293531 A	07-11-1995
GB 2332722	A	30-06-1999	NONE	
US 5183357	A	02-02-1993	DE 4003373 C1	08-05-1991
			AU 7078991 A	21-08-1991
			CA 2048690 A1	06-08-1991
			WO 9111628 A1	08-08-1991
			EP 0466861 A1	22-01-1992
			JP 4504612 T	13-08-1992
			NO 913916 A	04-10-1991
GB 876255	A	30-08-1961	CH 356640 A	31-08-1961
			CH 360869 A	15-03-1962
			FR 1247946 A	09-12-1960
WO 9964751	A	16-12-1999	GB 2337951 A	08-12-1999
			AU 4158399 A	30-12-1999
			CA 2334216 A1	16-12-1999
			CN 1304479 T	18-07-2001
			EP 1086316 A1	28-03-2001
			WO 9964751 A1	16-12-1999
			JP 2002517318 T	18-06-2002
			US 6447399 B1	10-09-2002
DE 4122158	A	07-01-1993	DE 4122158 A1	07-01-1993
			BR 9202593 A	16-03-1993
			IT 1296069 B1	09-06-1999